

## PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

To:

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Corporate Intellectual Property  
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Received BRENTFORD

14 JUN 2005

NOTIFICATION OF TRANSMITTAL OF  
THE INTERNATIONAL SEARCH REPORT AND  
THE WRITTEN OPINION OF THE INTERNATIONAL  
SEARCHING AUTHORITY, OR THE DECLARATION

15 JUN 2005

Received NISAP  
(PCT Rule 44.1)

Date of mailing  
(day/month/year)

14/06/2005

Applicant's or agent's file reference

SCB/PB60729

M: N/A

ON

UPDATED

14/6/05

FOR FURTHER ACTION

See paragraphs 1 and 4 below

International application No.

PCT/GB2005/000341

JTY CHECKED/FILE

International filing date

(day/month/year)

01/02/2005

Applicant

GLAXO GROUP LIMITED

1. ☒ The applicant is hereby notified that the International search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

**Filing of amendments and statement under Article 19:**

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

**When?** The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

**Where?** Directly to the International Bureau of WIPO, 34 chemin des Colombettes  
1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no International search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. ☐ With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

- ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.  
☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

**4. Reminders**

Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority



European Patent Office, P.B. 5818 Patentaan 2  
NL-2280 HV Rijswijk  
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Authorized officer

Federico Bonomelli

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>SCB/PB60729</b>	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, Item 5 below.	
International application No. <b>PCT/GB2005/000341</b>	International filing date (day/month/year) <b>01/02/2005</b>	(Earliest) Priority Date (day/month/year) <b>03/02/2004</b>
Applicant  <b>GLAXO GROUP LIMITED</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

## 1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☒ Certain claims were found unsearchable (See Box II).

3. ☐ Unity of invention is lacking (see Box III).

## 4. With regard to the title,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

**2-(PHENYLAMINO)-PYRIMIDIN-5-AMIDES AS CANNABINOID 2 RECEPTORS MODULATORS FOR THE TREATMENT OF IMMUNE OR INFLAMMATORY DISORDERS.**

## 5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

## 6. With regard to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. \_\_\_\_\_

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/GB2005/000341

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D239/42 C07D405/12 A61K31/506 A61P37/04 A61P29/00  
A61P19/02 A61P19/10

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, BEILSTEIN Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/04429 A (ASTRAZENECA AB; ASTRAZENECA UK LIMITED; THOMAS, ANDREW, PETER; NEWCOMB) 17 January 2002 (2002-01-17) method 75 p. 71; methods 120 and 121 p.77 page 20, lines 9-18	1-8
A	EP 0 569 912 A (HOECHST AKTIENGESELLSCHAFT) 18 November 1993 (1993-11-18) compounds 668,672,677,679,681,689,691,695	1-7
	-/--	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*S\* document member of the same patent family

Date of the actual completion of the international search

6 June 2005

Date of mailing of the international search report

14/06/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2260 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo.nl  
Fax: (+31-70) 340-3016

Authorized officer

Schuemacher, A

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/GB2005/000341

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	SULLIVAN R.W., BIGAM C.G., ERDMAN P.E., PALANKI M.S.S., ANDERSON D.W. ET AL: "2-chloro-4-(trifluoromethyl)pyrimidine-5- N-(3',5'-bis(trifluoromethyl)phenyl)carbox amide" J.MEDICINAL CHEM., vol. 41, no. 4, 1998, pages 413-419, XP002328712 table 1; compound 5	1-7
A .	WO 97/09315 A (SIGNAL PHARMACEUTICALS, INC; SUTO, MARK, J; GOLDMAN, MARK, E; GAYO, LE) 13 March 1997 (1997-03-13) example 46; table 1	1-8
A .	WO 02/066036 A (BRISTOL-MYERS SQUIBB COMPANY) 29 August 2002 (2002-08-29) claim 1	1-8
P,Y .	WO 2004/029026 A (GLAXO GROUP LIMITED; EATHERTON, ANDREW, JOHN; GIBLIN, GERARD, MARTIN,) 8 April 2004 (2004-04-08) claims 1,7-9	1-10
P,Y .	WO 2004/029027 A (GLAXO GROUP LIMITED; EATHERTON, ANDREW, JOHN; GIBLIN, GERARD, MARTIN,) 8 April 2004 (2004-04-08) claims 1,7-9	1-10
P,X .	WO 2004/018433 A (GLAXO GROUP LIMITED; EATHERTON, ANDREW, JOHN; GIBLIN, GERARD, MARTIN,) 4 March 2004 (2004-03-04) cited in the application the whole document	1-10
P,X .	WO 2004/018434 A (GLAXO GROUP LIMITED; EATHERTON, ANDREW, JOHN; GIBLIN, GERARD, MARTIN,) 4 March 2004 (2004-03-04) the whole document	1-10

**INTERNATIONAL SEARCH REPORT**International application No.  
PCT/GB2005/000341**Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)**

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
  
Although claims 9 and 10 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)**

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

**Remark on Protest**

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/G82005/000341

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0204429	A	17-01-2002	AU 6931701 A	21-01-2002
			BG 107451 A	30-09-2003
			BR 0112420 A	24-06-2003
			CA 2415486 A1	17-01-2002
			CN 1454210 A	05-11-2003
			CZ 20030076 A3	16-04-2003
			EE 200300020 A	15-10-2004
			EP 1303496 A1	23-04-2003
			WO 0204429 A1	17-01-2002
			HU 0301722 A2	29-12-2003
			JP 2004502763 T	29-01-2004
			NO 20030146 A	10-01-2003
			NZ 523357 A	30-07-2004
			PL 360385 A1	06-09-2004
			SK 282003 A3	01-07-2003
			TW 221470 B	01-10-2004
			US 2003216406 A1	20-11-2003
			ZA 200300079 A	05-05-2004
EP 0569912	A	18-11-1993	AU 3855493 A	18-11-1993
			EP 0569912 A1	18-11-1993
			HU 63941 A2	29-11-1993
			JP 6032784 A	08-02-1994
			ZA 9303373 A	09-12-1993
WO 9709315	A	13-03-1997	US 5811428 A	22-09-1998
			AU 726058 B2	26-10-2000
			AU 7013096 A	27-03-1997
			AU 726522 B2	09-11-2000
			AU 7163196 A	27-03-1997
			CA 2230894 A1	13-03-1997
			CA 2230896 A1	13-03-1997
			EP 0850228 A1	01-07-1998
			JP 11512390 T	26-10-1999
			JP 11512399 T	26-10-1999
			WO 9709325 A1	13-03-1997
			WO 9709315 A1	13-03-1997
			US 5935966 A	10-08-1999
WO 02066036	A	29-08-2002	CA 2438231 A1	29-08-2002
			CZ 20032233 A3	15-12-2004
			EP 1361879 A1	19-11-2003
			HU 0303841 A2	01-03-2004
			JP 2005508833 T	07-04-2005
			MX PA03007395 A	04-12-2003
			NO 20033683 A	17-10-2003
			WO 02066036 A1	29-08-2002
			US 2002183335 A1	05-12-2002
WO 2004029026	A	08-04-2004	AU 2003268907 A1	19-04-2004
			WO 2004029026 A1	08-04-2004
WO 2004029027	A	08-04-2004	AU 2003276028 A1	19-04-2004
			WO 2004029027 A1	08-04-2004
WO 2004018433	A	04-03-2004	AU 2003264076 A1	11-03-2004
			CA 2495880 A1	04-03-2004
			WO 2004018433 A1	04-03-2004

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

PCT/GB2005/000341

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2004018434 A	04-03-2004	AU 2003260436 A1	11-03-2004
		WO 2004018434 A1	04-03-2004
		EP 1534687 A1	01-06-2005
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